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*TPW*

| APPLICATION NO.  | FILING DATE | FIRST NAMED INVENTOR     | ATTORNEY DOCKET NO.          | CONFIRMATION NO.       |
|--|-------------|--------------------------|------------------------------|------------------------|
| 10/563,602   | 02/01/2006  | Reese Randolph Smith III |                              | 1904                   |
| 7590<br>Reese Randolph Smith, III<br>17 Wright Court<br>Succasunna, NJ 07876 |             |                          | EXAMINER<br>WILLIAMS, MARK A |                        |
|  |             |                          | ART UNIT<br>3673             | PAPER NUMBER           |
|  |             |                          | MAIL DATE<br>09/03/2008      | DELIVERY MODE<br>PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|                              |                        |                           |  |
|------------------------------|------------------------|---------------------------|--|
| <b>Office Action Summary</b> | <b>Application No.</b> | <b>Applicant(s)</b>       |  |
|                              | 10/563,602             | SMITH III, REESE RANDOLPH |  |
|                              | <b>Examiner</b>        | <b>Art Unit</b>           |  |
|                              | MARK A. WILLIAMS       | 3673                      |  |

— The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 06 January 2006.
- 2a) This action is FINAL.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-10 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____ .                                    |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>1/6/06</u> .  | 6) <input type="checkbox"/> Other: _____ .                        |

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase “so as to urge the portion... hook member” is not fully understood in the context of the claimed invention, and appears to be inconsistent with claim 5.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-7 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Collet et al., US Patent 6,811,118. A locking mechanism for engaging and

retaining a movable member 50, characterized in that the mechanism includes a hook member 12 mounted for angular displacement about a first axis such that the hook member is movable into and out of retaining engagement with the movable member, a latch member 14 mounted for angular displacement about a second axis parallel with the first axis, the latch member having a portion thereof spaced from the second axis, which can be located to prevent movement of the hook member out of retaining engagement, and first and second actuators (100 and 200) operable to rotate the latch member about the second axis such that the portion is movable to a position where it does not prevent movement of the hook member out of retaining engagement, and that the second actuator is a rotary actuator and includes what is broadly considered a cam 16 arranged for rotation about a third axis parallel to the second axis and located to engage a part of the latch member.

The part engageable by the cam is the portion spaced from the second axis. The first actuator includes inherently includes a solenoid at 103. The second actuator includes an electric motor 201. The mechanism includes a spring 20 connected to the hook member to urge it out of retaining engagement with the movable member. As best understood, the spring is connected between the hook member and the latch member so as to urge the portion of the latch member into engagement with the hook member. The hook member has a hook formation on

one side of the first axis and that it is engaged by the portion of the latch member on an opposite side of the first axis. The movable member is a capture pin of aircraft landing gear.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Collet et al.

Regarding claim 8, Collet provides a roller 26 on the second actuating element and a cam 28 on the portion of the latch member, as oppose to a roller on the portion of the latch member. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device in this way, since it has been held that a mere reversal of the essential working parts of a device involves only routine skill in the art. *In re Einstein*, 8 USPQ 167. Such a modification is considered an art recognized equivalent structural modification, and would have functioned at least equally as well.

Regarding claim 9, although not explicitly disclosed in Collet, the examiner serves Official Notice that it is old and well known to utilize sensor means for detection of the position of latch/lock components. It would have been obvious to modify the device in this way for the purpose of providing means of detection the positioning of latch/lock components, as known in the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARK A. WILLIAMS whose telephone number is (571)272-7064. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patricia Engle can be reached on (571) 272-6660. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Patricia L Engle/  
Supervisory Patent Examiner, Art Unit 3673

/Mark A. Williams/  
Examiner, Art Unit 3673

|                                   |  |                         |   |             |
|-----------------------------------|--|-------------------------|---|-------------|
| <b>Notice of References Cited</b> |  | Application/Control No. | Applicant(s)/Patent Under Reexamination |             |
|                                   |  | 10/563,602              | SMITH III, REESE RANDOLP                |             |
| Examiner                          |  | Art Unit                |   | Page 1 of 1 |
| MARK A. WILLIAMS                  |  | 3673                    |   |             |

**U.S. PATENT DOCUMENTS**

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Name               | Classification |
|---|---|--|-----------------|--------------------|----------------|
| * | A | US-6,811,118 B2                                  | 11-2004         | Collet et al.      | 244/102SL      |
| * | B | US-7,261,338 B2                                  | 08-2007         | Spurr, Nigel V.    | 292/216        |
| * | C | US-3,504,406                                     | 04-1970         | SCHOTT MARCEL RENE | 24/603         |
| * | D | US-5,288,037 A                                   | 02-1994         | Derrien, Michel    | 244/102SL      |
|   | E | US-  |                 |                    |                |
|   | F | US-  |                 |                    |                |
|   | G | US-  |                 |                    |                |
|   | H | US-  |                 |                    |                |
|   | I | US-  |                 |                    |                |
|   | J | US-  |                 |                    |                |
|   | K | US-  |                 |                    |                |
|   | L | US-  |                 |                    |                |
|   | M | US-  |                 |                    |                |

**FOREIGN PATENT DOCUMENTS**

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Country | Name | Classification |
|---|---|--|-----------------|---------|------|----------------|
|   | N |  |                 |         |      |                |
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|   | R |  |                 |         |      |                |
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**NON-PATENT DOCUMENTS**

|   |   |   |
|---|---|---|
| * |   | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
|   | U |   |
|   | V |   |
|   | W |   |
|   | X |   |

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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|  |   |    |   |                        |                           |
|--|---|----|---|------------------------|---------------------------|
| Substitute for form 1449B/PTO                        |   |    |   | Complete if Known      |                           |
| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> |   |    |   | Application Number     | Unassigned                |
|  |   |    |   | Filing Date            | APPL FILING DATE          |
|  |   |    |   | First Named Inventor   | Reese Randolph SMITH, III |
|  |   |    |   | Group Art Unit         | Unassigned                |
|  |   |    |   | Examiner Name          | Unassigned                |
| Sheet  | 1 | of | 1 | Attorney Docket Number | 041129-0113               |

10/563602

| U.S. PATENT DOCUMENTS |                       |                      |                                   |   |  |   |
|-----------------------|-----------------------|----------------------|-----------------------------------|---|--|---|
| Examiner Initials*    | Cite No. <sup>1</sup> | U.S. Patent Document |                                   | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                       |                       | Number               | Kind Code <sup>2</sup> (if known) |   |  |   |
| A1                    | 6474704               | B1                   |                                   | Rathmann et al.                                 | 11/05/2002                                       |   |
| A2                    | 4979384               |                      |                                   | Malesko et al.                                  | 12/25/1990                                       |   |
| A3                    | 5288037               |                      |                                   | Derrien   | 02/22/1994                                       |   |
|                       |                       |                      |                                   |   |  |   |
|                       |                       |                      |                                   |   |  |   |
|                       |                       |                      |                                   |   |  |   |
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| U.S. PATENT APPLICATION DOCUMENTS |                       |                                  |                                   |   |  |   |
|-----------------------------------|-----------------------|----------------------------------|-----------------------------------|---|--|---|
| Examiner Initials*                | Cite No. <sup>1</sup> | U.S. Patent Application Document |                                   | Name of Patentee or Applicant of Cited Document | Filing Date of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                                   |                       | Serial Number                    | Kind Code <sup>2</sup> (if known) |   |  |   |
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| FOREIGN PATENT DOCUMENTS |                       |                         |                     |  |  |   |
|--------------------------|-----------------------|-------------------------|---------------------|--|--|---|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document |                     | Name of Patentee or Applicant of Cited Documents | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|                          |                       | Office <sup>3</sup>     | Number <sup>4</sup> |  |  |   |
| A4                       | EP                    | 1 342 663               | A                   | Messier  | 09/10/2003                                       |   |
| A5                       | EP                    | 0 978 609               | A                   | Valeo Securite Habitacle                         | 02/09/2000                                       |   |
| A6                       | DE                    | 44 05 547               | A                   | Daimler Benz Aerospace AG                        | 08/24/1995                                       |   |

| NON PATENT LITERATURE DOCUMENTS |                       |  |  |  |  |
|---------------------------------|-----------------------|--|--|--|--|
| Examiner Initials*              | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published. |  |  |  |
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|                    |                 |                 |            |
|--------------------|-----------------|-----------------|------------|
| Examiner Signature | /Mark Williams/ | Date Considered | 09/02/2008 |
|--------------------|-----------------|-----------------|------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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